OBDAN 91

MONDAY 17 JULY

MONDAY

1430-1600 **POSTER PRESENTATIONS** Brighton Centre
Numbers in parentheses indicate poster boards

1600-1730 **POSTER DISCUSSION GROUPS**
Brighton Metropole and Grand Hotels

FREE RADICALS (Abstracts 11-23)

Chairmen: J A Castro (Villa Martelli, Argentina) and H J Forman (Los Angeles, USA)

Posters will be displayed in the Main Foyer. The Discussion Group will be held in the Albert Room, Grand Hotel

Abstract

11 (P1) **The effect of tamoxifen citrate and toremifene citrate on lipid peroxidation, antioxidant enzymes and xenobiotic metabolising enzymes in rat liver**
M Ahotupa & P Hirsimaki (Turku, Finland)

12 (P2) **Emoxipin - an inhibitor of free radical oxidation. Studies of toxicity**
T A Gaglova, A B Volkov & L D Smirnov (Moscow, USSR)

13 (P3) **Hepatocyte cytoskeleton as a target for oxygen free radicals**
F Mirabelli, M Vannelli, P Richelmi & G Bellomo (Pavia, Italy)

14 (P4) **Cigarette smoke potentiates the DNA-damaging effect of man-made mineral fibres**
P Leanderson & C Tagesson (Linkoping, Sweden)

15 (P5) **One-electron reduction of 2,3,5,6-tetramethylquinone by rat liver cytochrome P450**
A R Goeptar, J M S van Maanen, C Zoetemelk & N P E Vermeulen (Amsterdam, The Netherlands)

16 (P6) **Elevated ethane production in acrylonitrile (AN) treated rats**
V Ivanov (Krasnoyarsk, USSR & Brussels, Belgium)

17 (P7) **Metal induced lipid peroxidation**
H R Andersen & O Andersen (Odense, Denmark)

18 (P8) **Reductive activation of trinitrotoluene (TNT) induced by rat liver microsomes and mitochondria**
Z X Zhuang, S J Liu & Q G Jiang (Beijing, China)

19 (P9) **Biotransformation of carbon tetrachloride and lipid peroxidation promotion by liver nuclear preparations from different animal species**
G Castro, M Diaz Gomez & J Castro (Villa Martelli, Argentina)

20 (P10) **Dimethyldisulphide formation during trichloromethyl free radical attack on methionine**
G Castro, M Diaz Gomez & J Castro (Villa Martelli, Argentina)

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MONDAY 17 JULY [redacted]

FREE RADICALS (cont)

Abstract

21 (P11) **Modulation of the lindane-induced liver oxidative stress by phenobarbitone, 3-methylcholanthrene and lindane**
S Barros, K Simizu, R Pimentel, L A Azzalis, O R Koch, L A Videla & V B C Junqueira (São Paulo, Brazil; Buenos Aires, Argentina; Chile)

22 (P12) Lipid peroxidation may be involved in DDT induced liver damage
S Barros, L A Azzalis, R Pimentel, I S C da Silva, M N N Burnier Jnr, K Simizu & V B C Junqueira (São Paulo, Brazil)

23 (P13) Liver lipid peroxidation related parameters after short-term hexachlorocyclohexane isomers administration to rats
S Barros, K Simizu & V B C Junqueira (São Paulo, Brazil)

IN VIVO TOXICOLOGY (Abstracts 24-45)

Chairmen: C E Lumley (Carshalton, UK) and H P A Illing (Bootle, UK)

Posters will be displayed in the Main Foyer. The Discussion Group will be held in the Edinburgh Room, Metropole Hotel

24 (P15) Influence of two different adsorbent agents on the thrombogenicity of prothrombin complex concentrates
H-P Klücking, R Wulkow & G Domheim (Erfurt & Suhl, GDR)

25 (P16) Oxidation damage of TNT acute administration to rat erythrocytes and its effects on liver sulphydryl and Ca^{++} homeostasis
Z X Zhuang, Q G Jiang & S J Liu (Beijing, China)

26 (P17) A comparison of techniques for obtaining terminal blood samples from mice for routine toxicological assessment
J A Osborne (Stock, UK)

27 (P18) Macroautoradiography and quantitative considerations
N Motoji, E Hayama, A Shishido, A Shigematsu, J Miyahara & H Shimizu (Chiba & Ashigarakami-gun, Japan)

28 (P19) Sub-acute oral toxicity study with a combination of eight chemicals in rats
D Junker, R A Woutersen, P J van Blaaderen, H P Til & V J Feron (Zeist, The Netherlands)

29 (P20) Model for screening effects of drugs on haemopoietic tissues
M L S Queiroz (Campinas, Brazil)

30 (P21) Determination of nicotine and its metabolite cotinine in urine by gas chromatography
N Vural & B C Ekc (Ankara, Turkey)

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IN VIVO TOXICOLOGY (cont)

Abstract

31 (P22) Effects of long term administration of phosphates on the liver, kidneys, muscles, bone, inorganic elements and $1,25(OH)_2D_3$ in the serum of mice
M Omoto, T Imai, K Seki, R Nomura, M Motegi & T Harada (Tokyo, Japan)

32 (P23) TCDD resistance is inherited as an autosomal dominant trait in the rat
R Pohjanvirta & J Tuomisto (Kuopio, Finland)

33 (P24) Regulations for animal toxicity testing - harmonisation by 1992?
L S Speid, C E Lumley, S R Walker & D K Luscombe (Carshalton & Cardiff, UK)

34 (P25) Is there a need for a second species in long term toxicity testing?
L S Speid, C E Lumley, S R Walker & D K Luscombe (Carshalton & Cardiff, UK)

35 (P26) The value of an international toxicology data base
C E Lumley & S R Walker (Carshalton, UK)

36 (P27) The significance of laboratory animals' individual status for drug toxicological testing
I Berezovskaya, V Trepakov, V Rymantsev & V Shulman (Moscow, USSR)

37 (P28) Lithium propranolol toxicity in Balb/c mice: chronopharmacological aspects
Z Z Bojanic, V V Bojanic & V M Lazovic (Nis, Yugoslavia)

38 (P29) Ranitidine prevented increase in gastrin serum levels in male Wistar rats treated with subcutaneously administered benzene
Z Z Bojanic, V V Bojanic & Z Stankovic (Nis, Yugoslavia)

39 (P30) Influence of smoking with hookah on cadmium level in hair
A Sukumar & R Subramanian (New Delhi, India)

40 (P31) Chronic evaluation in the mouse to a microchip implant used for animal identification
M J Goodyer, N Pickersgill, N Shepherd, D Haida & P E Bythamley (Harrogate, UK)

41 (P32) Evaluation of the acute toxicity and anti-inflammatory activity of *N*-[4-(2,6-dimethylpiperidino)] 2-butynyl phthalimide hydrochloride in mice and rats
E A Hassoun, W Al-Hassan, Nuihal Al-Gray & Z M El-deen (Baghdad, Iraq)

42 (P33) Toxicological studies with Pentosan polysulphate
H-P Klocking & W Seffner (Erfurt & Bad Pister, GDR)

43 (P34) Induction of the generalised Shwartzman reaction with antibiotics: effects of endotoxin produced by bacteria treated with antibiotics on a living body
T Nagai, T Ikeda, M Sato & Y Miura (Sagamihara-shi & Tokyo, Japan)

44 (P35) Effects of fatty acid amides (FAA) on the haemolysis in young rats
H Ichikawa & T Ueta (Tokyo, Japan)

45 (P36) A new aspect for the toxic process being an aetiological cause for diseases, their prophylaxis and treatment
D Lekov & K Kanev (Sofia, Bulgaria)

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BIOTECHNOLOGY PRODUCTS, FOOD ADDITIVES AND NATURAL TOXINS (Abstracts 46-67)

Chairmen: E E Creppy (Strasbourg, France) and J Caldwell (London, UK)

Posters will be displayed in the Main Foyer. The Discussion Group will be held in the Gloucester Room, Metropole Motel

Abstract

46 (P43) Some questions of methodology of experimental studies of the safety of drugs developed by methods of genetic engineering
Y Burov, A Torchinsky & A Kinzirsky (Moscow, USSR)

47 (P44) Food safety assessment for use of Sometribove to increase efficiency of milk production in dairy cows
B Hammond, W Vandaele, F Johannsen & T Harvey (St Louis, USA & Brussels, Belgium)

48 (P45) The preclinical safety evaluation of human anti-cytomegalovirus monoclonal antibody
K Matsuzawa, T Koyama, Y Matsumoto, S Sugawara, S Asano, S Sasaki, K Sunagawa, Y Masuho & T Makita (Tokyo, Japan)

49 (P46) The subacute toxicity of human recombinant interleukin-2 in the cynomolgus monkey
R J Tudor, A K Rushton, T D Anderson, T J Hayes & B Rushton (Welwyn Garden City, UK & Nutley, USA)

50 (P47) Molecular cloning and expression of *Staphylococcus aureus* strains 015 α-toxin gene in *E coli*
D Meshveliani, R Adamia, L Kvachadze, R Vashakidze & N Mamulashvili (Tbilisi, USSR)

51 (P48) Lack of genotoxicity of Ac-Di-Sol® in mutagenicity and *in vivo* cytogenetics tests
M L Weiner, D L Putman, K Batt & M J Fletcher (Princeton & Rockville, USA)

52 (P49) Acute toxicity of carrageenan
M L Weiner, C Freeman, J D McCarty & M J Fletcher (Princeton, USA)

53 (P50) Potential weekly intake of artificial food colours by 3-14 year old children
M C Toledo, M S Guerchon & S Ragazzi (Campinas, Brazil)

54 (P51) Effect of dose size upon the metabolism of the mouse-specific peroxisome proliferator cinnamyl anthranilate (CA) in the mouse
F Keyhanfar & J Caldwell (London, UK)

55 (P52) A comparative study of the hepatic effects of cinnamyl esters in mice
J Caldwell & A Viswalingam (London, UK)

56 (P53) Toxicity of anethole in cultured primary hepatocytes
A D Marshall, A J Howes & J Caldwell (London, UK)

57 (P54) Structure-specificity of the genotoxicity of allylbenzene congeners
A J Howes, V S W Chan & J Caldwell (London, UK)

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BIOTECHNOLOGY PRODUCTS, FOOD ADDITIVES AND NATURAL TOXINS (cont)

Abstract

58 (P55) **An evaluation of the use of ELISA in the detection of aflatoxins in human urine**
K Makarananda & G E Neal (Carshalton, UK)

59 (P56) Ochratoxin A is a substrate for phenylalanine hydroxylase in rat
F F Creppy, K Chakir, M J Fisher & G Dirheimer (Strasbourg, France & Liverpool, UK)

60 (P57) Changes in body and organs' weight and histological derangements in the spleen of rats fed upon *Aspergillus niger* infested diet
V Tiwari & R K S Chauhan (Gwalior, India)

61 (P58) Isolation of toxic constituents from bracken rhizomes
I Saito, K Takeno, J Kawata & Y Ohmo (Tottori, Japan)

62 (P59) A study on the cause of death due to mutotoxin
C Y Lee, W W Lin, Y M Chen, S Y Lee & T Yasumoto (Taipei, Taiwan & Sendai, Japan)

63 (P62) Phospholipase A_2 as the lethal factor of the hornet venom
C L Ho & L L Hwang (Taipei, Taiwan)

64 (P63) Actions of the lethal polypeptide neurotoxin from male *Atrax robustus* spider venom, and protection by immunisation with a toxoid
E J Mylecharane, I Spence, C A Phillips, D D Sheumack, M R Brown, A Comis & M E H Howden (Sydney & Geelong, Australia)

65 (P64) Isolation of toxin causing root rot resistant lines in maize through tissue culture
R P Singh (Varanasi, India)

66 (P65) The effect of 3 substituted furanic, ngaione and myoporaquinone on hepatic glutathione S transferase activity in mice
J Bidlicka, P A Nicholls, A A Seawright & J T Ahokas (St Lucia & Melbourne, Australia)

67 (P66) Relationship between toxicity and domoic acid in blue mussel (*Mytilus edulis*)
M S Nijjar, B Grimmett, J Brown, N MacNair, S Waguet, G Johnson & J F Amend (Charlottetown, Canada)

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RENAL TOXICOLOGY (Abstracts 68-88)

Chairmen: P M Tulkens (Brussels, Belgium) and H Endou (Tokyo, Japan)

Posters will be displayed in the Heurlon Hall. The Discussion Group will be held in the Belmont Room, Metropole Hotel

Abstract

68 (P69) Development of a primary culture of rat renal proximal tubular cells as an *in vitro* system to study nephrotoxicity
P J Boogaard, J-P Zoeteweij, G J Mulder & J F Nagelkerke (Leiden, The Netherlands)

69 (P70) Cytotoxicity of cysteine S-conjugates in rat renal proximal tubule cells: structure-activity relationships
A Kuehling, S Vamvakas, M Knob, K Berthold, W Dekant & D Henschler (Wurzburg, FRG)

70 (P71) The disturbance of calcium metabolism on kidney induced by Cd-metallothionein
T Jin, P Lundet & G Nordberg (Umeå, Sweden)

71 (P72) Application of proton NMR urinalysis to the examination of nephrotoxic lesions induced in rats by seven region specific nephrotoxins
K P R Gartland, E Holmes & J K Nicholson (London, UK)

72 (P73) Nephrotoxicity assessment by measuring cellular ATP contents in isolated rat nephron segments
H Endou & K Y Jung (Tokyo, Japan)

73 (P74) Effects of ochratoxin A on [^{3}H] haloperidol binding to renal cortical membranes from rats and phenobarbitone treatment
N Ozaki, S Suzuki & K Maroi (Ishikawa & Chiba, Japan)

74 (P75) Sub-acute toxicity of phenazopyridine in the kidney of the rat
B H Thomas, R W Mueller, C J Paul & G Solomonraj (Ottawa, Canada)

75 (P76) *In vitro* studies on anionic polypeptides as protectants against aminoglycoside-induced nephrotoxicity
B K Kishore, P Lambrichi, G Laurent & P M Tulkens (Brussels, Belgium)

76 (P77) Electron microscopic and immunohistochemical study on the regeneration of proximal tubular cells in rat kidney after treatment with gentamicin
T Yamoto, M Takaoka, I Igarashi, N Matsunami & H Masuda (Shizuoka, Japan)

77 (P78) Cisplatin induced injury in cultured renal epithelial cells
M Gemba & N Fukunishi (Osaka, Japan)

78 (P79) *Bis*- and *tris*(2,3 dibromopropyl)phosphate (BP) induced nephrotoxicity in rats, and carcinogenecity of *bis* BP
K Kobayashi, M Fukuoka, K Naito, K Takaki, A Tanaka & M Tobe (Shizuoka & Tokyo, Japan)

79 (P80) Abnormal excretion of urinary electrolytes in the newly established congenital hydronephrosis rat
K Iguchi, I Igarashi, N Sunouchi & T Ihamuchi (Nihari-gun, Japan)

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RENAL TOXICOLOGY (cont)

Abstract

80 (P81) **Hypertension observed in the newly established congenital hydronephrosis rat**
K Tauchi, S Toyohara, I Ikarashi & T Imamichi (Nishari-gun, Japan)

81 (P82) Renin-angiotensin system in chronic occupational and experimental exposure to lead
M Cantignani, P Boscolo & P Preziosi (L'Aquila & Rome, Italy)

82 (P83) Localisation and quantification of renin in kidney sections of rats and dogs
S Read, A Brito-Babapulle, S McWam, P Rhodes & B Trefty (Beckenham, UK)

83 (P84) Two methods for the assessment of proteinuria in rats following the intraperitoneal administration of egg white lysozyme
G Evans & C Parsons (Beckenhurst, UK)

84 (P85) Chronic glomerulonephropathy and caging density in male Wistar rats
K P Jones, A H Pulsford & M J Tucker (Macclesfield, UK)

85 (P86) Organ-specific metabolomic induction in mice by X-irradiation or cisplatinum treatment
J Koropatnick, M E Hebblethwaite & M G Chevalier (London, Canada)

86 (P87) The effect of haloalkane and haloalkene cysteine conjugates on glutathione reductase and lipid dependent activities
E A Lock (Macclesfield, UK)

87 (P88) A new method for recognition of nephrotoxicity of drugs and environmental chemicals in rats. Kidney derived diamin allergen, determined with the help of monoclonal antibodies, as indicator for kidney diseases and damage in the rat experimental animal model
F-W Falkenberg, P Deters & E Gerhard (Bochum & Wuppertal, FRG)

88 (P89) Deregulation of cytosolic ionized calcium (Ca^{2+})$_i$ in toxic cell injury: studies using digital imaging fluorescence microscopy (DIFM)
R F Young, J K Bereczky, M W Smith, P C Phelps, N Nitta, K A Elliget & J T Hinson (Baltimore, USA)

HEPATOTOXICOLOGY I (Abstracts 89-108)

Chairmen: I G Sipes (Tucson, USA) and F W Bourne (Alnwick, UK)

Posters will be displayed in the Hewison Hall. The Discussion Group will be held in the Buckingham Room, Metropole Hotel.

89 (P92) Hepatotoxicity of bile salts
T G Hammond, K Colclough, D Smith & S Clark (Loughborough, Birmingham & Sandwich, UK)

90 (P93) Continuous monitoring of phagocytic activity of Kupffer cells in the perfused rat liver: development and application of a new method to hepatotoxicity
J M te Koppele, T J Lemmens & K O Thomas (Chapel Hill, USA)

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